

CEMP-ET

DEPARTMENT OF THE ARMY
U.S. Army Corps of Engineers
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Pamphlet
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Engineering and Design
EXPLOSIVES STORAGE MAGAZINES

1. Purpose. Appendix A provides a ready reference of explosives storage magazine information such as shape, size, explosive limits, and operational features. It is intended to provide planners and designers sufficient information to select the most suitable standard magazine design to satisfy the user's requirements.

2. Applicability. This pamphlet is applicable to all HQUSACE elements, major subordinate commands, districts, and field operating activities (FOA) having military design and construction responsibilities.

3. References.

- a. DoD 6055.9-STD
- b. AR 385-60
- c. AR 385-64
- d. AR 415-17
- e. TM 5-1300

4. Discussion. Military installations use magazines, sometimes referred to as igloos, for the storage of ammunition and explosives. Selecting the correct storage capacity, siting, and type of magazine has been a problem to military planners, and especially to those responsible for assuring safety compliance. Investigational work with earth-covered magazines has been concerned with intra relationships within magazine complexes for siting purposes. Numerous full-scale tests performed over a period of several years have established magazine separation criteria that will prevent magazine-to-magazine explosion propagation. These tests formed the basis for the explosive safety standards in AR 385-64 which implements DOD 6055.9-STD requirements. The primary objective of standard magazines is to provide designers and installation planners pre-approved magazines meeting the Department of Defense Explosives Safety Board (DDESB) safety criteria. This pamphlet is structured to

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provide complete guidance to Army. It does not address those magazines listed in references a and c that were developed by the Naval Facilities Engineering Command.

FOR THE COMMANDER:

A handwritten signature in black ink, appearing to read "R. Griffin".

1 Appendix
APP A - Explosives
Storage Magazines

ROBERT H. GRIFFIN
Colonel, Corps of Engineers
Chief of Staff

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